

Freeform Search

Database:	<input checked="" type="checkbox"/> US Pre-Grant Publication Full-Text Database <input checked="" type="checkbox"/> US Patents Full-Text Database <input type="checkbox"/> US OCR Full-Text Database <input type="checkbox"/> EPO Abstracts Database <input type="checkbox"/> JPO Abstracts Database <input type="checkbox"/> Derwent World Patents Index <input type="checkbox"/> IBM Technical Disclosure Bulletins
Term:	<input type="text" value="L13 NOT L11"/> <div style="display: flex; justify-content: space-between; width: 100%;"> <input type="button" value="Up"/> <input type="button" value="Down"/> </div>
Display:	<input type="text" value="20"/> Documents in Display Format: <input type="radio"/> CIT <input type="radio"/> Starting with Number <input type="text" value="1"/>
Generate:	<input type="radio"/> Hit List <input checked="" type="radio"/> Hit Count <input type="radio"/> Side by Side <input type="radio"/> Image

Search History

DATE: Monday, January 22, 2007 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

<u>Set</u>	<u>Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set result</u>
	side by side			
	<u>L13</u>	<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>		
<u>L14</u>	L13 NOT L11		54	<u>L14</u>
<u>L13</u>	L12 and (propellant or HFA or HFC or hydrofluoro\$8)		94	<u>L13</u>
<u>L12</u>	L10 and ((microparticle or microstructure or particle) same (suspension or dispersion))		145	<u>L12</u>
	<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L11</u>	L10 and ((microparticle or microstructure or particle) same (suspension or dispersion))		47	<u>L11</u>
	<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>			
<u>L10</u>	L9 and ((porous or perforated) same (microparticle or microstructure or particle))		216	<u>L10</u>
<u>L9</u>	424/46.ccls. or 424/45.ccls.		2860	<u>L9</u>
	<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L8</u>	5192528.pn.		1	<u>L8</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L7</u>	L6 same (propellant or HFA or HFC or hydrofluoro\$8)		101	<u>L7</u>

<u>L6</u>	(("perforated microstructure" or (porous near6 particle) or perticle or microstructure or microparticle) same (suspension or dispersion))	13654	<u>L6</u>
<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>			
<u>L5</u>	((Alexey near Kabalnov) AND @pd>20060503)	7	<u>L5</u>
<u>L4</u>	((Thomas near Tarara) AND @pd>20060503)	4	<u>L4</u>
<u>L3</u>	((Luis near Dellamary) AND @pd>20060503)	4	<u>L3</u>
<u>L2</u>	((Ernest near Schutt) AND @pd>20060503)	4	<u>L2</u>
<u>L1</u>	((Jeffry near Weers) AND @pd>20060503)	3	<u>L1</u>

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 19:14:54 ON 22 JAN 2007)

FILE 'CAPLUS, USPATFULL, MEDLINE' ENTERED AT 19:18:14 ON 22 JAN 2007

L1 43039 S (POROUS OR PERFORATED) (P) (MICROSTRUCTURE OR PARTICLE OR MIC
L2 14807 S (POROUS OR PERFORATED) (8A) (MICROSTRUCTURE OR PARTICLE OR MI
L3 1020 S L2 (P) (DISPERSION OR SUSPENSION)
L4 10 S L3 (P) (HFA OR HFC OR HYDROFLUORO?)
L5 9 DUPLICATE REMOVE L4 (1 DUPLICATE REMOVED)
L6 9 FOCUS L5 1-

=> d que 11

L1 43039 SEA (POROUS OR PERFORATED) (P) (MICROSTRUCTURE OR PARTICLE OR
MICROPARTICLE)

=> d que 12

L2 14807 SEA (POROUS OR PERFORATED) (8A) (MICROSTRUCTURE OR PARTICLE OR
MICROPARTICLE)

L6 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
TI Hollow porous particles in metered dose inhalers
AB Purpose. To assess the phys. stability and aerosol characteristics of suspensions of hollow porous microspheres (PulmoSpheres) in HFA-134a. Methods. Cromolyn sodium, albuterol sulfate, and formoterol fumarate microspheres were prepared by a spray-drying method. Particle size and morphol. were determined via electron microscopy. Particle aggregation and suspension creaming times were assessed visually, and aerosol performance was determined via Andersen cascade impaction and dose uniformity studies. Results. The hollow porous particle morphol. allows the propellant to permeate freely within the particles creating a novel form of suspension termed a homo-dispersion, wherein the dispersed and continuous phases are identical, separated by an insol. interfacial layer of drug and excipient. Homodispersion formation improves suspension stability by minimizing the difference in d. between the particles and the medium, and by reducing attractive forces between particles. The improved phys. stability leads to excellent dose uniformity. Excellent aerosolization efficiencies are also observed with PulmoSpheres formulations, with fine particle fractions of about 70%. Conclusions. The formation of hollow porous particles provides a new formulation technol. for stabilizing suspensions of drugs in hydrofluoroalkane propellants with improved phys. stability, content uniformity, and aerosolization efficiency.

ACCESSION NUMBER: 2000:207980 CAPLUS
DOCUMENT NUMBER: 133:22339
TITLE: Hollow porous particles in metered dose inhalers
AUTHOR(S): Dellamary, Luis A.; Tarara, Thomas E.; Smith, Dan J.; Woelk, Christopher H.; Adractas, Anastasios; Costello, Michael L.; Gill, Howard; Weers, Jeffry G.
CORPORATE SOURCE: Alliance Pharmaceutical Corp., San Diego, CA, 92121, USA
SOURCE: Pharmaceutical Research (2000), 17(2), 168-174
CODEN: PHREEB; ISSN: 0724-8741
PUBLISHER: Kluwer Academic/Plenum Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



PALM INTRANET

Day : Monday
Date: 1/22/2007

Time: 19:22:58

Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
Additionally, enter the **first few letters** of the Inventor's First name.

Last Name First Name

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Date: 1/22/2007

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Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
Additionally, enter the **first few letters** of the Inventor's First name.

Last Name	First Name
Schutt	Ernest

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Day : Monday
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Enter the **first few letters** of the Inventor's Last Name.
Additionally, enter the **first few letters** of the Inventor's First name.

Last Name

First Name

Dellamary

Luis

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Date: 1/22/2007

Time: 19:22:58

Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
Additionally, enter the **first few letters** of the Inventor's First name.

Last Name	First Name	Search
Tarara	Thomas	<input type="button" value="Search"/>

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Last Name**First Name**

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<u>Name</u>	<u>result</u>	<u>set</u>	<u>Name</u>	<u>result</u>
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<u>L8</u>	5192528.pn.		1	<u>L8</u>
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